

CLAIMS

- Sub B
1. Blade ring for air-swept roller mills comprising an outer ring, an inner ring and guide blades, said guide blades being arranged between said outer ring and said inner ring accompanied by a formation of flow ducts, wherein said guide blades being pivotably arranged and fixable with a predeterminable pivot angle  $\alpha$ .
2. Blade ring according to claim 1, wherein said pivotable guide blades having a pivot axis are fixable to said outer ring in the area of said pivot axis.
3. Blade ring according to claim 1, wherein said guide blades being pivotable in a pivoting range formed by a pivot angle  $\alpha$  of approximately  $+30^\circ$  to  $90^\circ$  and  $-30^\circ$  to  $90^\circ$  or  $30^\circ$  to  $150^\circ$ , relative to a horizontal.
4. Blade ring according to claim 3, wherein said outer ring, at least in the pivoting ranges of said individual guide blades, being planar and perpendicular to the guide blades.
5. Blade ring according to claim 4, wherein said blade ring being constructed as a polygon blade ring in segment form having a plurality of polygon segments with at least one of said pivotable guide blade.  $\beta\alpha\alpha$

6. Blade ring according to claim 5,  
wherein said polygon blade ring in segment form having  
polygon segments, which are outer polygon segments  
with said pivotable guide blades fixed thereto and  
that said outer polygon segments being connected to  
the outer ring are planar and constructed for recei-  
ving said pivot axes of the guide blades.

7. Blade ring according to claim 6,  
wherein said pivot axes of the guide blades being in  
each case constructed on a lower guide blade edge or  
on an upper guide blade edge or between the upper and  
lower guide blade edges.

11/ 8. Blade ring according to claim 5,  
wherein said outer polygon segments being planar metal  
sheets are fixed with an angle of inclination  $\beta$ .

16/ 9. Blade ring according to claim 1,  
wherein said guide blades being planar.

17/ 10. Blade ring according to claim 1,  
wherein said guide blades being curved.

8/ 11. Blade ring according to claim 6,  
wherein said pivot axes of said guide blades being  
arranged centrally on said outer polygon segments.

12/ 12. Blade ring according to claim 5,  
wherein said pivot axes of the guide blades being  
guided through said outer polygon segments and a mill  
casing or a ring duct wall and being operable from an  
outside for adjusting the inclination.

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18

13. Blade ring according to claim 1,  
wherein said guide blades being lockable in a prede-  
terminable pivot angle  $\alpha$ .

19

14. Blade ring according to claim 13,  
wherein clamping devices are provided on outwardly  
guided pivot axes which lock the guide blades in a  
predeterminable pivot angle  $\alpha$ .

20

15. Blade ring according to claim 1,  
wherein said guide blades can be pivoted and fixed  
individually, in groups or all together.

13

16. Blade ring according to claim 12,  
wherein said inclination adjustment of the guide blades  
taking place manually or automatically.

14

17. Blade ring according to claim 13,  
wherein an automatic inclination adjustment of the  
guide blades taking place mechanically, electrically  
or hydraulically.

15

18. Blade ring according to claim 14,  
wherein for said automatic inclination adjustment of  
the guide blades, transfer or transmission devices  
being provided.

21

19. Blade ring according to claim 1,  
wherein said inner ring being formed by an outer sur-  
face of a grinding bowl and said guide blades having  
an inner edge being positioned parallel and at a li-  
mited distance from said outer surface of said grind-  
ing bowl.

<sup>9</sup>  
20. Blade ring according to claim 6,  
wherein said inner ring being polygonal and comprising  
a plurality of inner polygon segments, said inner  
polygonal segments being sheet metal blanks and being  
positioned facing said outer polygon segments and con-  
structed for receiving said pivot axes of said guide  
blades.

<sup>10</sup>  
21. Blade ring according to claim <sup>9</sup>20,  
wherein a polygon segment of said polygon blade ring  
in segment form comprising an outer polygon segment,  
an inner polygon segment and at least one of said  
guide blades pivotable fixed to said outer polygon  
segment and said inner polygon segment and whose in-  
clination adjustment can take place from an outside.

<sup>22</sup>  
22. Blade ring according to claim 1,  
wherein said inner ring, at least in the pivoting  
ranges of the individual guide blades, is constructed  
in a planar manner perpendicular to the guide blades.